



Department of Environment and Conservation  
Division of Water Pollution Control  
401 Church Street, 6<sup>th</sup> Floor L & C Annex, Nashville, TN 37243  
(615) 532-0625

**CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)  
STATE OPERATING PERMIT (SOP)  
NOTICE OF INTENT (NOI)**

Type of permit you are requesting: ☐ SOPCD0000 (designed to discharge) ☐ SOPC000000 (no discharge) ☐ Unknown, please advise  
Application type: ☐ New Permit ☐ Permit Reissuance ☐ Permit Modification  
If this NOI is submitted for Permit Modification or Reissuance provide the existing permit tracking number: \_\_\_\_\_

**OPERATION IDENTIFICATION**

Operation Name: <u>Clayton Moore</u>		County: <u>Bedford</u>
Operation Location/ Physical Address: <u>417 Dye Rd. Bell Buckle, TN 37020</u>		Latitude: Longitude:
Name and distance to nearest receiving water(s): <u>Morgan Branch</u>		
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list those permit numbers:		
Animal Type:	<input checked="" type="checkbox"/> Poultry <input type="checkbox"/> Swine <input type="checkbox"/> Dairy <input type="checkbox"/> Beef <input type="checkbox"/> Other _____	
Number of Animals: <u>72000</u>	Number of Barns: <u>4</u>	Name of Integrator: <u>Tyson</u>
Type of Animal Waste Management: (check all that apply)	<input checked="" type="checkbox"/> Dry <input type="checkbox"/> Liquid <input type="checkbox"/> Liquid, Closed System (i.e. covered tank, under barn pit, etc.)	
Attach the NMP <input type="checkbox"/> NMP Attached	Attach the closure plan <input type="checkbox"/> Closure Plan Attached	Attach a topographic map <input type="checkbox"/> Map Attached

**PERMITTEE IDENTIFICATION**

Official Contact (applicant): <u>Clayton E. Moore</u>	Title or Position: <u>owner</u>			<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Mailing Address: <u>417 Dye Rd.</u>	City: <u>Bell Buckle</u>	State: <u>TN</u>	Zip: <u>37020</u>	
Phone number(s): <u>931-389-6751</u>	E-mail:			
Optional Contact:	Title or Position:			<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Address:	City:	State:	Zip:	
Phone number(s):	E-mail:			

**APPLICATION CERTIFICATION AND SIGNATURE** (must be signed in accordance with the requirements of Rule 1200-4-5-.05)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title; print or type <u>Clayton E. Moore</u>	Signature <u>Clayton E. Moore</u>	Date <u>11-23-10</u>
--	--------------------------------------	-------------------------

STATE USE ONLY		T & E Aquatic Fauna		Tracking No. <u>SOPC00135</u>
Received Date <u>JUN 01 2011</u>	Reviewer <u>EEO</u>	EFO <u>Columbia Johnson City</u>	High Quality Water	NOC Date <u>10-21-11</u>

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## Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

- 1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
- 2) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
- 6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
- 7) Drystack of manure or stockpiles of litter are always kept covered under roof or tarps.
- 8) An *Annual Report* will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

Clayton E. Moore  
Signature of CAFO Operator:

11-23-10  
Date:

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# Closure Plan

In the event that broiler production at this location ceases, the following will be done within 360 days:

- Any litter/compost currently in storage at the time of closure will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All litter in houses will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All land application of litter will be done at application rates calculated in the Nutrient Management Plan.
- The most current litter analysis will be provided to anyone removing litter from the farm.
- Any dead birds in the houses at the time of closure will be composted.

Clayton E. Moore

Date: 11-23-10

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All dead birds are composted in litter, and  
sold along with the litter

Clayton Moore

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# Nutrient Management Plan - Poultry

For Use by Farms

Exporting 100% of Litter Generated

## 1. Farmer/ Producer Information

Is ALL Litter Hauled Offsite\*

\*If the answer is "No," do not complete this form.

Yes

No

Please circle one

First Name:

Clayton Moore

Last Name:

Moore

Farm/ Operation Name:

Clayton Moore

Tennessee County:

Bedford

## 2. Volumes and Calculations

Poultry Type:

Broiler

Pullet

Layer

circle the type(s)

Number of birds per house  
per grow-out: (Avg.)

18000

The amount of litter removed from a poultry house will vary depending on the litter moisture content, type and size of birds, and length of time birds are kept in house. Below is a Table summarized from the NRCS Poultry System Calculator V10.0 to assist in placing the litter amount produced per bird and assist in litter calculations.

Number of Houses:

4

Number of Grow-Outs / Year:

6

Average Weight of Litter  
Produced (lbs.) / Bird / Grow-  
Out (see Table at right or use  
your farm average if known)

2.1

Type of Bird	Market/ Mature Weight (lbs)	Avg. Weight of Litter Produced (lbs)/ Bird / Grow-Out
Broilers	small (3.8 - 5.8)	2.1
	large (5.9 - 7+)	2.4
	8 - 12	3
Layer		
Pullet	5.5	3

Take **Bolded** Letters in **Key** Column Above and Below to Assist in Calculating Values Below

Number of Birds per Grow-Out =  $A \times B =$

72,000

Number of Birds Example: If  $A = 22,000$  and  $B = 2$  and  $C = 5.5$  then:

$22,000 \times 2 = 44,000$  number of birds

Number of Birds per Year =  $A \times B \times C =$

432,000

Number of Birds per Year Example: If  $A = 22,000$  and  $B = 2$  and  $C = 5.5$  then:

$22,000 \times 2 \times 5.5 = 242,000$  number of birds per year

Total Tons of Litter Produced per Year on the Farm =  $E \times D / 2,000 =$

518.24

Tons of Litter Produced Example: If  $E = 242,000$  and  $D = 2.1$  lbs. then:

$242,000 \times 2.1 \text{ lbs} = 508,200 \text{ lbs} / 2,000 = 254 \text{ Tons}$

Tons of Litter Exported from Farm / Year

518.24

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# Nutrient Management Plan - Poultry

For Use by Farms

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## 3. Litter Handling and Storage

### Litter Contents from Manure Analysis

Laboratory Name	House	Date of Analysis	Total N	P <sub>2</sub> O <sub>5</sub> <sup>a</sup>	K <sub>2</sub> O <sup>b</sup>	Units
UA	4	3-23-11	71	61.4	69	lbs./Ton
						lbs./Ton
						lbs./Ton

I will get an annual manure analysis and provide the results to all parties which are given or purchase litter from my farm or operation.

Clayton Moore 5-9-11  
Signature / Date Signed

### Mortality Management

Dead birds will be disposed of according to State and local laws in a way that does not adversely affect groundwater or create public health concern. All mortalities will be disposed of using:

<input checked="" type="radio"/> Composting	<input type="radio"/> Incineration	<input type="radio"/> Other:
please circle one		

C.M.  
Initials

### Closure Plan

In the event that poultry production at this location ceases, the following will be done within 360 days:

- Any litter/ compost currently in storage at the time of closure will be removed and spread elsewhere according to my current NMP.
- All litter in houses will be removed and spread elsewhere according to my current NMP.
- The most current manure analysis performed by an accredited laboratory will be provided to anyone removing litter on my farm.
- Any dead birds in the houses at the time of closure will be disposed of according to my NMP.

Clayton Moore 5-9-11  
Signature that I have read and agree to this Closure Plan / Date signed

#### Notes:

N = Nitrogen

P<sub>2</sub>O<sub>5</sub> = Phosphorus Oxide

K<sub>2</sub>O = Potassium Oxide

<sup>a</sup>If Phosphorus is expressed in analyses as Phosphorus (P), simply multiple P lbs. X 2.3 to convert to P<sub>2</sub>O<sub>5</sub>.

<sup>b</sup>If Potassium is expressed in analyses as Potassium (K), simply multiple K lbs. X 1.2 to convert to K<sub>2</sub>O.

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2/14

# Nutrient Management Plan - Poultry

For Use by Farms

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## 4. Checklist

Use this sheet to help ensure that you have included all required items in order for your CAFO application and Nutrient Management Plan to be approved.

### Forms

- ☒ Signed revised Notice of Intent Form
- ☒ Signed Addendum to Nutrient Management Plan



### Maps

- ☒ Map of Farm/ Operation Showing the Location of Barns/ Houses, Compost Bins, Litter Storage Bins, Nearby Roads, Streams, Wetlands, etc.
- ☒ Topographical map of the Farm/ Operation showing property lines and location of poultry houses.



### Calculations and Volumes

- ☒ Number of Birds per House
- ☒ Total Number of Birds per Year
- ☒ Number of Houses
- ☒ Number of Grow-Outs Each Year
- ☒ Average Weight of Birds
- ☒ Tons of Litter Produced Per Year



### Manure Analysis / Mortality Disposal

- ☒ Annual Manure Analysis Performed by an Accredited Laboratory
  - ☒ Statement Regarding Dead Animal Disposal / Mortality Management\*
- \*If rendering is method listed, make sure to include the name and address of the renderer in the notes area at the bottom of this sheet.



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Notes:

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## APPENDIX B

### Agreement for the Removal of Litter, Manure and/or Process Wastewater from an AFO

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. This agreement is for (amount of waste removed, i.e. tons, gallons, etc.)

374 Tons of waste, removed on (date) 4-16-11, from the facility owned by Clayton Moore and located at 417 Dye Rd. Bell Buckle, TN.

- A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or groundwater.
- B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes, wetlands or wells.
- D. Fields receiving litter, manure and/or process wastewater should be soil tested at least every two or three years.
- E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.
- G. Apply no more nitrogen or phosphorus than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells. The following non-application buffer widths, taken from NRCS Conservation Practice Standard 590, should be used when applicable:

Object, Site	Buffer Width, feet	Situation
Wells	150	Up-slope of application site
	300	Down-slope of application site, if conditions warrant application
Waterbody	30-100	Depending on the amount and quality of vegetation and slope
Public Use Area	300	All
Residences	300	Other than producer

- I. Do not apply litter, manure and/or process wastewater when the ground is frozen, flooded, saturated or on steep slopes subject to flooding, erosion or rapid runoff.

- J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.

- K. Keep records of locations where poultry litter will be used as a fertilizer.

I, Whit Lee am the person receiving litter, manure, and/or

(name)  
process wastewater and do understand the conditions listed above.

Whit Lee  
(signature)

16 May 2011  
(date)

161 Lee Road Bell Buckle TN  
(address)

931 394 2124  
(phone)

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# APPENDIX C

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## Names of Persons and/or Firms that Remove Litter, Manure and/or Process Wastewater from an AFO

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Name: White Lee  
Address: 159 Lee Rd  
Bell Buckle  
Phone No.: 931-394-2124  
Tons Removed: 374  
Date: 4-16-11

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone No.: \_\_\_\_\_  
Tons Removed: \_\_\_\_\_  
Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone No.: \_\_\_\_\_  
Tons Removed: \_\_\_\_\_  
Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone No.: \_\_\_\_\_  
Tons Removed: \_\_\_\_\_  
Date: \_\_\_\_\_

Name: \_\_\_\_\_  
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Phone No.: \_\_\_\_\_  
Tons Removed: \_\_\_\_\_  
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Tons Removed: \_\_\_\_\_  
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Phone No.: \_\_\_\_\_  
Tons Removed: \_\_\_\_\_  
Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone No.: \_\_\_\_\_  
Tons Removed: \_\_\_\_\_  
Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone No.: \_\_\_\_\_  
Tons Removed: \_\_\_\_\_  
Date: \_\_\_\_\_

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AGRICULTURAL DIAGNOSTIC LABORATORY  
UNIVERSITY OF ARKANSAS - FAYETTEVILLE

\*\*\*MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)

Name:	CLAYTON MOORE	Received in lab:	3/23/2011
Address:	417 DYE RD.	Mailed:	3/30/2011
City:	BELL BUCKLE	State, Zip:	TN 37020
County:	BEDFORD (TN)	CK#:	4197

Lab. No.	M10477					
Sample No.	1					
Animal type	broilers					
-age/lbs	none given					
Bedding type	shavings/sawdust					
Manure type	cleanout					
Sample date	none given					
Age of manure	none given					
pH	8.4					
EC(umhos/cm)	14160					
% H2O	23.75					

**-on dry basis-**

Total %N	4.66					
Total %P	1.76					
Total %K	3.74					
Total %Ca	3.25					
NO3-N, mg/kg						
NH4-N, mg/kg						

**-on as-is basis-**

Total %N	3.55					
Total %P	1.34					
Total %K	2.85					
Total %Ca	2.48					
NO3-N, mg/kg						
NH4-N, mg/kg						

**-lbs/ton on as-is basis-**

N	71.0					
P2O5	61.4					
K2O	69.0					
Ca	49.6					
NO3-N						
NH4-N						

\*\*\*all analyses performed on "as-is" basis/ "dry" basis is calculated from moisture content

\*lbs/ton P2O5 = %Total P on "as-is" basis multiplied by 20\*2.29

\*lbs/ton K2O = %Total K on "as-is" basis multiplied by 20\*1.2

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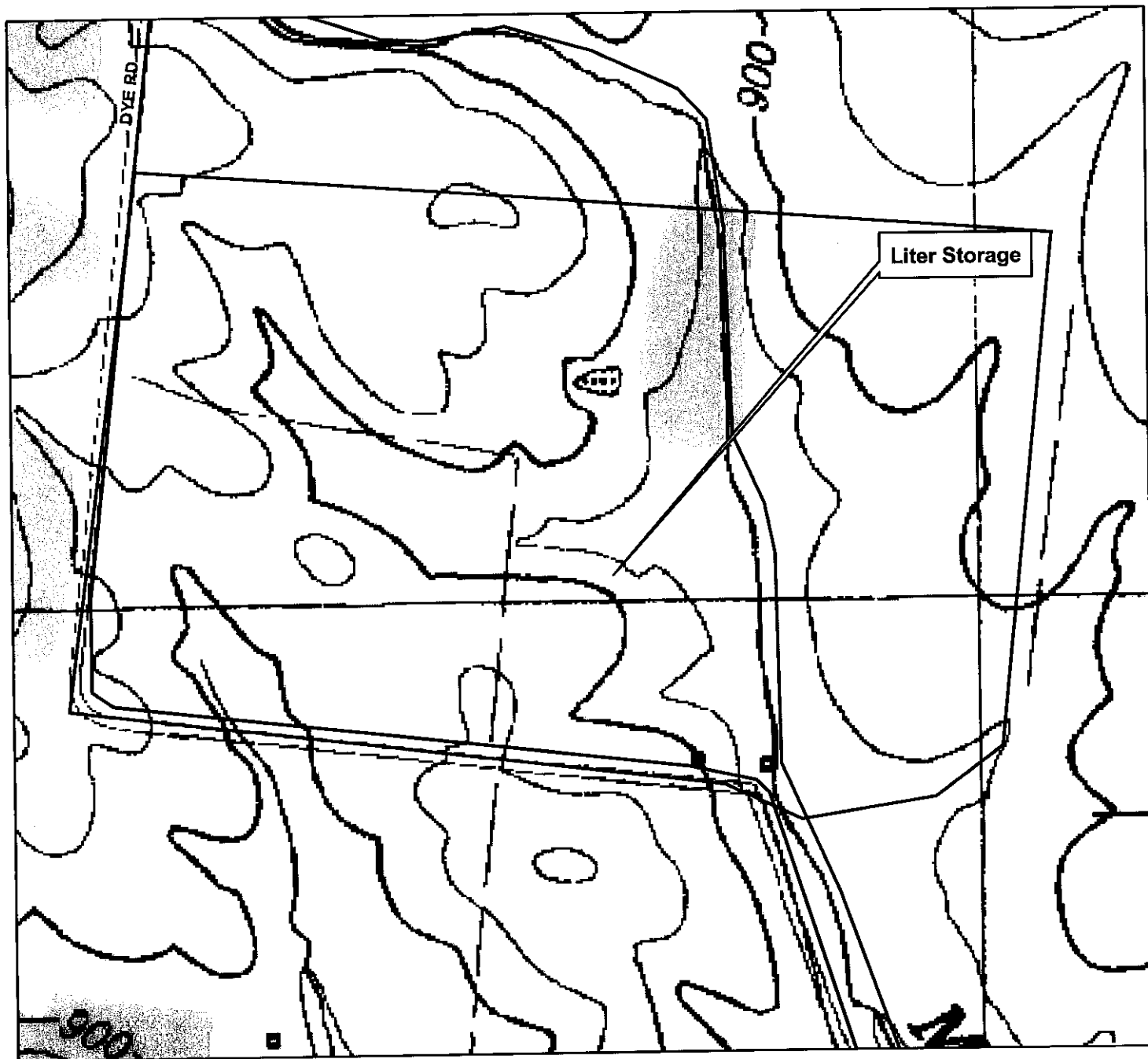
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Field Office: SHELBYVILLE SERVICE CENTER  
 Agency: USDA - NRCS  
 Assisted By: Allen Willmore  
 State and County: TN, BEDFORD

Legal Description: 1:6000



**Legend**

-  County Boundary
-  Roads
-  Streams
-  Water



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Field Office: SHELBYVILLE SERVICE CENTER

Agency: USDA - NRCS





Assisted By: Allen Willmore

State and County: TN, BEDFORD

Legal Description: 1:24000



Legend

-  County Boundary
-  Roads
-  Streams
-  Water



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1,100 0 1,100 2,200 3,300 4,400  
Feet



Clayton Moore

Date: 12/6/2010

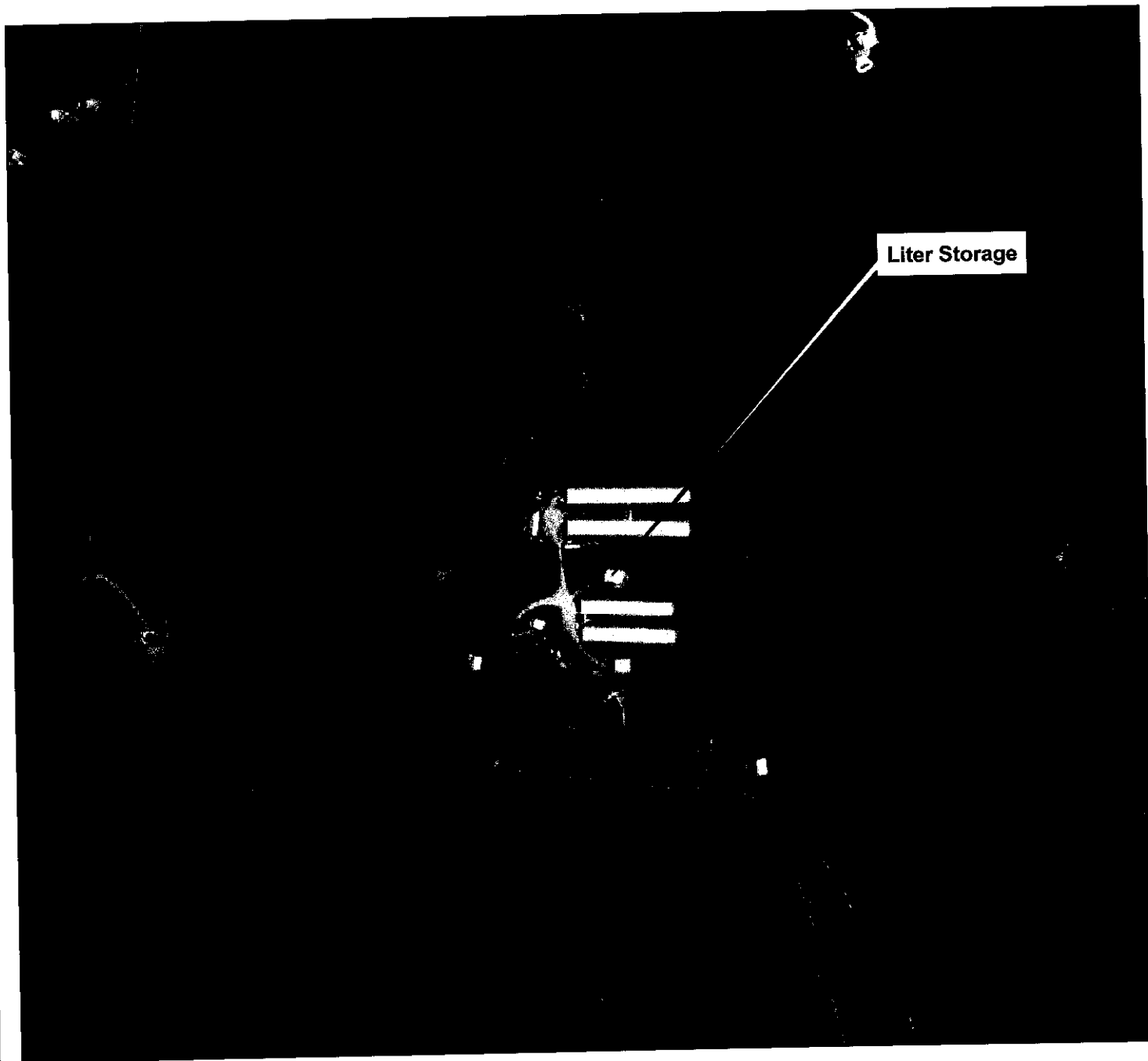
Field Office: SHELBYVILLE SERVICE CENTER

Agency: USDA - NRCS

Assisted By: Allen Willmore

State and County: TN, BEDFORD

Legal Description: 1:6000



**Legend**

 County Boundary

 Roads

 Streams

 Water



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TN Division Of Water  
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N

270 0 270 540 810 1,080 Feet

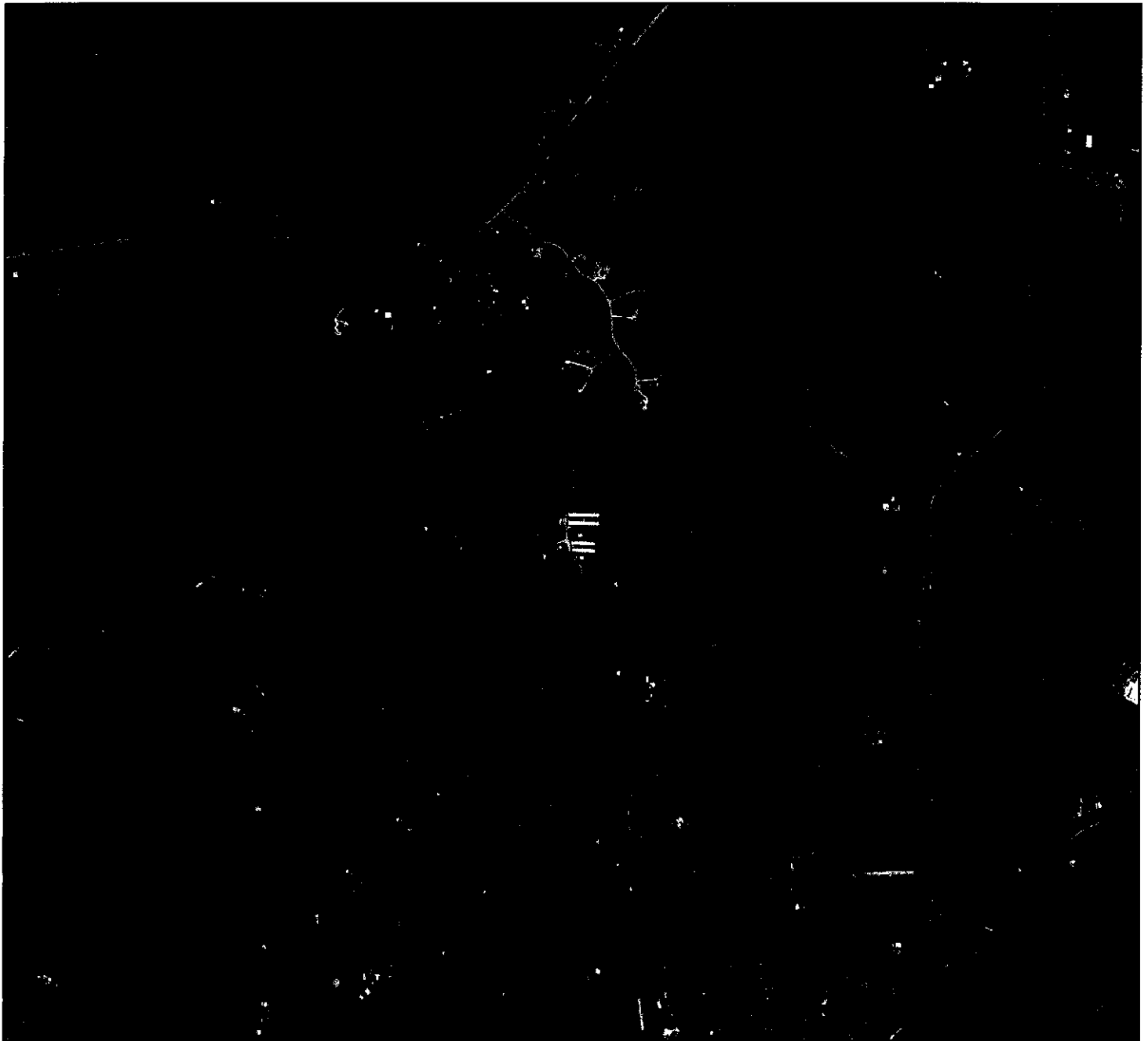
Field Office: SHELBYVILLE SERVICE CENTER

Agency: USDA - NRCS

Assisted By: Allen Willmore

State and County: TN, BEDFORD

Legal Description: 1:24000




Legend

 County Boundary

 Roads

 Streams

 Water



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1,100 0 1,100 2,200 3,300 4,400  
Feet





**TENNESSEE DEPARTMENT OF AGRICULTURE**  
**Water Resources Program**

May 27, 2011

Ms. Erin O'Brien  
TDEC  
L&C Annex, 6<sup>th</sup> Floor  
Nashville, Tennessee 37243

Dear Ms. O'Brien:

I am writing to inform you that I have reviewed the application and Nutrient Management Plan (NMP) for CAFO permit for Mr. Clayton Moore in Bell Buckle, Tennessee.

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form and the original signed and dated Notice of Intent (NOI) form, Addendum to Nutrient Management Plan, NMP, and stamped Approval Stamp form for your review and final approval. Mr. Moore is going to get me the original copy of his signed Closure Plan. I will forward it to you as soon as I receive it.

Sincerely,

A handwritten signature in black ink, appearing to read "Angela L. Warden".

Angela L. Warden  
CAFO Specialist

: //enclosures

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# TENNESSEE DEPARTMENT OF AGRICULTURE

## Water Resources Program

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

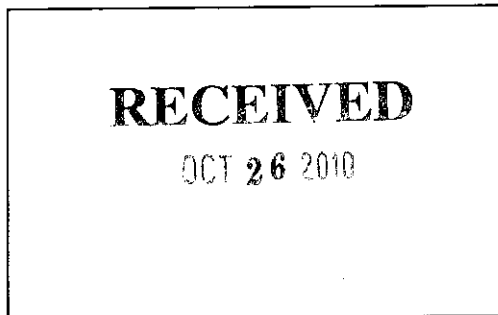
Name of Owner/Operator: Clayton Moore

Operation Name: Clayton Moore

Address of Operation: 417 Dye Rd. Bell Buckle, TN 37020

Phone Number: (931) 389-6751 County: Bedford

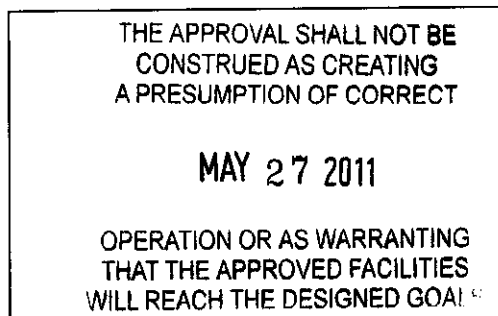
Date application was initiated:



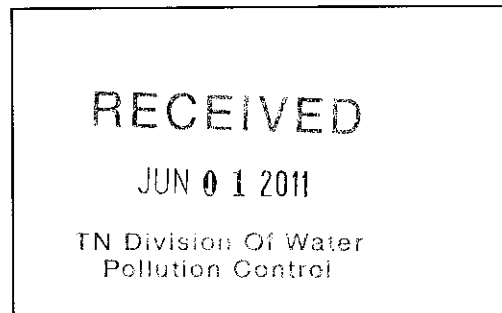
Date approval forwarded to TDEC:



NMP/CNMP Approval Date:



Date approval received by TDEC



TDA Reviewer's Name: Angela Warden

TDA Reviewer's Signature: Angela Warden 5/27/11  
Date



## Nutrient Management Plan Requirements

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

- 2/10/11  
4/15/11
- ☒ 1. **Two maps:** (1.) A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. (2.) A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.
- ☒ 2. **Nutrient budget** – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.
- ☒ 3. **Soil test results** for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.
- 2/10/11  
4/15/11
- ☒ 4. Results of **manure analysis** from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.
- ☒ 5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.
- 2/10/11  
4/15/11
- ☒ 6. Statement regarding method of **dead animal disposal**.
- ☒ 7. **Closure Plan** to be implemented in the event animal production ceases on the site.

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These last two items are only required for medium-size CAFOs that manage **liquid manure**.

- ☒ 8. Documentation of **design of liquid waste handling system**. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.
- ☒ 9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough **subsurface investigation**. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

- 2/10/11  
4/15/11
- ☒ **Notice of Intent form** must be submitted with all applications from Class II (Medium) CAFOs
- OR
- ☒ EPA Forms 1 and 2B must be submitted with all applications from Class I (Large) CAFOs.
- 2/10/11  
4/15/11
- ☒ **Addendum to Nutrient Management Plan.**